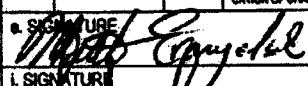




QESA 8/10

ENGINEERING CHANGE PROPOSAL (ECP), PAGE 1					1. DATE (YYMMDD) 040628		Form Approved OMB No. 0704-0188		
<small>Public reporting burden for this collection of information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188) Washington, DC 20503.</small>							2. PROCURING ACTIVITY NO. R04G2004		
PLEASE DO NOT RETURN YOUR COMPLETED FORM TO EITHER OF THESE ADDRESSES. RETURN COMPLETED FORM TO THE GOVERNMENT ISSUING CONTRACTING OFFICER FOR THE CONTRACT/PROCURING ACTIVITY NUMBER LISTED IN ITEM 2 OF THIS FORM.							3. DODAAC		
4. ORIGINATOR			b. ADDRESS (Street, City, State, Zip Code)			5. CLASS OF ECP			
a. TYPED NAME (First, Middle Initial, Last) Michael J. Berry			CDR, TACOM/ARDEC US ARMY ARDEC, ATTN:AMSRD-AAR-QEM-B PICATINNY, NJ 07806			I			
6. JUST. CODE D			7. PRIORITY R						
8. ECP DESIGNATION			9. BASELINE AFFECTED						
a. MODEL/TYPE M67 M69		b. CAGE CODE 19200		c. SYSTEM DESIGNATION M67 Fragmentation Hand Grenade M69 Practice Hand Grenade		FUNCTIONAL <input checked="" type="checkbox"/> PRODUCT ALLOCATED			
d. ECP NO. R04G2004		a. TYPE		f. REV		10. OTHER SYS/CONFIG. ITEMS AFFECTED YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>			
11. SPECIFICATIONS AFFECTED					12. DRAWINGS AFFECTED				
CAGE Code		Specification/Document No.		Rev.	NOR	CAGE Code	Number	Rev.	NOR
a. SYSTEM									
b. DEVELOPMENT									
c. PRODUCT		19200		DTL8822131 DTL9235210	Org Org	001 002			
13. TITLE OF CHANGE Update TDP									
14. CONTRACT NO. LINE ITEM					15. PROCURING CONTRACTING OFFICER				
					a. NAME (First, Middle Initial, Last) Susan Phares				
					b. CODE				
					c. TELEPHONE NO. 309-782-1019				
16. CONFIGURATION ITEM NOMENCLATURE M67 Fragmentation Hand Grenade M69 Practice Hand Grenade								17. IN PRODUCTION X YES <input type="checkbox"/> NO	
18. ALL LOWER LEVEL ITEMS AFFECTED									
a. NOMENCLATURE Fuze, Hand Grenade, M213 Parts For, Loading, Assembling And Packing Fuze, Hand Grenade, M228 Parts For, Loading, Assembling And Packing					b. PART NO. 8822131 9235201		c. NSN 1330-00-182-3570 1330-00-168-5502		
19. DESCRIPTION OF CHANGE - Change Distribution statement from A to D - Add MIL-A-48078 and quality requirements therein - Update current drawing references - Update safety pin Quality Control testing - Add detonator output requirements (DTL8822131 only)									
20. NEED FOR CHANGE To update specification to current quality requirements									
21. PRODUCTION EFFECTIVITY BY SERIAL NUMBER N/A					22. EFFECT ON PRODUCTION DELIVERY SCHEDULE N/A				
23. RETROFIT									
a. RECOMMENDED ITEM EFFECTIVITY N/A					b. SHIP / VEHICLE CLASS AFFECTED N/A				
c. ESTIMATED KIT DELIVERY SCHEDULE N/A					d. LOCATIONS OR SHIP / VEHICLE NUMBERS AFFECTED N/A				
24. ESTIMATED COSTS / SAVINGS UNDER CONTRACT N/A					25. ESTIMATED NET TOTAL COSTS / SAVINGS N/A				
26. SUBMITTING ACTIVITY a. AUTHORIZED SIGNATURE Michael J. Berry					b. TITLE Quality Assurance Engineer				
27. APPROVAL / DISAPPROVAL									
a. CLASS I <input checked="" type="checkbox"/> APPROVAL RECOMMENDED <input type="checkbox"/> DISAPPROVAL RECOMMENDED			b. CLASS II <input type="checkbox"/> APPROVED <input type="checkbox"/> DISAPPROVED			c. CLASS II CONCUR IN CLASSIFICATION OF CHANGE <input type="checkbox"/> DO NOT CONCUR IN CLASSIFICATION OF CHANGE <input type="checkbox"/>			
d. GOVERNMENT ACTIVITY AMSRD-AAR-AEM-M			e. SIGNATURE 			f. DATE SIGNED (YYMMDD) 7/15/04			
g. APPROVAL <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> DISAPPROVED			h. GOVERNMENT ACTIVITY OPMCCS SFAE-AMO-CCS			i. SIGNATURE 			
						j. DATE SIGNED (YYMMDD) 040715			

File 011

NOTICE OF REVISION (NOR) THIS REVISION DESCRIBED BELOW HAS BEEN AUTHORIZED FOR THE DOCUMENT LISTED.		1. DATE (YYMMDD) 040625	Form Approved OMB No. 0704-0188
<small>Public reporting burden for this collection of information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188) Washington, DC 20503.</small> PLEASE DO NOT RETURN YOUR COMPLETED FORM TO EITHER OF THESE ADDRESSES, RETURN COMPLETED FORM TO THE GOVERNMENT ISSUING CONTRACTING OFFICER FOR THE CONTRACT/PROCURING ACTIVITY NUMBER LISTED IN ITEM 2 OF THIS FORM.		2. PROCURING ACTIVITY NO. R04G2004	
		3. DODAAC	
4. ORIGINATOR a. TYPED NAME (First, Middle Initial, Last) Michael J Berry	b. ADDRESS (Street, City, State, Zip Code) CDR, TACOM/ARDEC US ARMY ARDEC, ATTN: AMSRD-AAR-QEM-B PICATINNY, NJ 07806	5. CAGE CODE 19200 7. CAGE CODE 19200	6. NOR NO. 001 8. DOCUMENT NO. DTL8822131
9. TITLE OF DOCUMENT Fuze, Hand Grenade, M213 Parts For, Loading, Assembling And Packing	10. REVISION LETTER a. CURRENT Original b. NEW		11. ECP NO. R04G2004
12. CONFIGURATION ITEM (OR SYSTEM) TO WHICH ECP APPLIES M87 Fragmentation Hand Grenade		SHEET 1 OF 5	
13. DESCRIPTION OF REVISION PAGE 1 Change from: "DISTRIBUTION STATEMENT A, Approved for public release; distribution is unlimited." To: "DISTRIBUTION STATEMENT D, Distribution Authorized to the Department of Defense and U.S. DoD Contractors only, Critical Technology, December 22, 2003. Other requests shall be referred to AMSRD-AAR-QEM-B, Picatinny, New Jersey 07806-5000" PAGE 2 Add to paragraph 2.2.1 SPECIFICATIONS/ DEPARTMENT OF DEFENSE: "MIL-A-48078 Ammunition, Standard Quality Assurance Provisions, General Specification for" PAGE 4 PARAGRAPH 3.9 Change from: "see 6.8" To: "see 4.3.5" PAGE 5 Add the following paragraphs: "3.19 <u>Critical defects material handling</u> . An analysis of critical defect material handling shall be made in accordance with MIL-A-48078 and 4.3.3.14." Continued on next page.			
14. THIS SECTION FOR GOVERNMENT USE ONLY			
a. (X one) <input checked="" type="checkbox"/> (1) Existing document supplemented by this NOR may be used in manufacture. <input type="checkbox"/> (2) Revised document must be received before manufacturer may incorporate this change. <input type="checkbox"/> (3) Custodian of master document shall make above revision and furnish revised document.			
b. ACTIVITY AUTHORIZED TO APPROVE CHANGE FOR GOVERNMENT AMSRD-AAR-AEM-M		c. TYPED NAME (First, Middle Initial, Last) Gregory G. Papadimitriou	
d. TITLE CCB Chairman	e. SIGNATURE 		f. DATE SIGNED (YYMMDD) 04 07 15
15. a. ACTIVITY ACCOMPLISHING REVISION U. S. ARMY, TACOM/ARDEC AMSRD-AAR-QEM-M	b. REVISION COMPLETED (Signature)		c. DATE SIGNED (YYMMDD)

Continuation Sheet 2 from NOR # 001
DTL8822131

Date PAN
20040628 R04G2004

PAGE 7

ADD TO TABLE I THE FOLLOWING:

		4	A	B
"3.19 Critical defects material handling	4.3.3.14	X	X	X"

Delete paragraph 4.1.1 in its entirety and replace with:

"4.1.1 Responsibility for Inspection. Unless otherwise specified in the contract or purchase order, the provisions of MIL-A-48078 shall apply and are hereby made a part of this detail specification. Except as otherwise specified in the contract or purchase order, the supplier is responsible for the performance of all inspection requirements as specified herein; the supplier may use his own or any other facilities suitable for the performance of the inspection requirements specified herein, unless disapproved by the Government. In addition, the Government reserves the right to perform any of the inspections set forth in the specification where such inspections are deemed necessary to assure supplies and services conform to the prescribed requirements."

PAGE 8

Delete paragraph 4.2.2 in its entirety and replace with:

"4.2.2 Inspection to be performed. See MIL-A-48078 and Table II specified herein."

Delete paragraph 4.2.3 in its entirety and replace with:

"4.2.3 Rejection. The first article sample shall be rejected if any of the inspections/tests in Table II are not acceptable; MIL-A-48078 applies."

PAGE 10

Change from:

"7548583"

To

"12999070"

PAGE 13

Delete paragraph 4.3.1 in its entirety and replace with:

"4.3.1 Lot formation. Fuze lots shall comply with the lot formation provisions of MIL-STD-1916 and MIL-A-48078. In addition lots of fuzes shall contain:

- a. M42 percussion primers of one lot interfix number from one manufacturer.
- b. Delay composition from not more than two consecutive lots from one manufacturer.

c. Detonator assemblies from not more than one manufacturer containing the following:

- (1) RDX from not more than one lot from one manufacturer.
- (2) Lead azide from not more than one lot from one manufacturer.
- (3) Lead styphnate from not more than one lot from one manufacturer."

Delete paragraph 4.3.2 in its entirety and replace with:

"4.3.2 Examination. (See MIL-A-48078). Unless otherwise specified in the Conformance Inspection, sampling plans for major and minor defects shall be in accordance with MIL-STD-1916, Verification Level (VL) IV for major defects and VL II for minor defects. Critical characteristics shall be inspected 100% follow by VL VII in accordance with MIL-STD-1916. Equipment necessary for the performance of the inspections listed shall be in accordance with 4.3.4."

PAGE 21, PARAGRAPH 4.3.2.8

Change from:

"7548583"

To

"12999070"

Change from:

"7548577"

To

"12999072"

PAGE 25, PARAGRAPH 4.3.2.12

DELETE "Note: (a) See Table V for sample size and accept/reject criteria."

Change from:

"2 Safety pin withdrawal lower limit (a) (a) 3.8 4.3.3.5"

To:

"2 Safety pin withdrawal lower limit 100% 3.8 Gage"

PAGE 27

Add the following:

"114 Detonator function high order(b) 3.9 4.3.5"

Add to note:

"(b). see 4.3.5 for sample size and accept/reject criteria."

PAGE 36

Add the following paragraphs:

"4.3.3.14 Critical defect material handling (see 3.19). The contractor shall maintain controls for all critical defects as specified in paragraph 3.2 of MIL-A-48078."

Delete paragraph 4.3.4 in its entirety and replace with:

"4.3.4 Inspection Equipment. The inspection equipment required to perform the inspection and tests prescribed in this specification is identified in the 'Paragraph Reference/ Inspection Method' column in the tables starting with paragraph 4.3.2.1, and the test method paragraphs (see 4.4). The contractor shall submit for approval inspection equipment designs in accordance with the terms of the contract (See section 6 of MIL-A-48078 and section 6.3 herein)."

Add the following paragraph:

"4.3.5 Detonator function high order. Prior to release for production, a sample of 50 units from each lot of detonator shall be randomly selected, assembled into the M213 fuzes assembly and function as specified in 4.4.12 using test equipment as specified in 4.3.4."

PAGE 38

Add the following paragraph:

"4.4.12 Detonator function high order. The output end of the detonator shall be held flush and perpendicular to a steel plate of the dimension of two (2) inches by one and one-half (1.5) inches by five-eighth (.625) with the Rockwell hardness between B75 and B77. The indentation on the steel plate shall be measured and the average of the indentation of 50 sample shall be no less than 0.035 inch with no individual value less than 0.030 inches."

PAGE 40

Add to end of paragraph 6.2 Acquisition requirements:

"o. Provisions of MIL-A-48078"

Delete paragraph 6.8 in its entirety.

Change from:

"6.9 Critical defects I and II."

To:

"6.8 Critical defects I and II."

PAGE 41

Change from:

"6.10 Performance Oriented Packaging."

To:

"6.9 Performance Oriented Packaging."

Change from:

"6.11 Subject term (key word) listing."

To:

"6.10 Subject term (key word) listing."

Continuation Sheet 5 from NOR # 001
DTL8822131

Date
20040628

PAN
R04G2004

PAGE 42

Change from:

"6.12 Porosity in the Fuze Body (Major Defect)"

To:


"6.11 Porosity in the Fuze Body (Major Defect)"

Change from:

"6.13 Void or Crack (Critical Defect)"

To:

"6.12 Void or Crack (Critical Defect)"

NOTICE OF REVISION (NOR)		1. DATE (YYMMDD) 040628	Form Approved OMB No. 0704-0188			
THIS REVISION DESCRIBED BELOW HAS BEEN AUTHORIZED FOR THE DOCUMENT LISTED.						
Public reporting burden for this collection of information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188) Washington, DC 20503.		2. PROCURING ACTIVITY NO. RD4G2004				
PLEASE DO NOT RETURN YOUR COMPLETED FORM TO EITHER OF THESE ADDRESSES, RETURN COMPLETED FORM TO THE GOVERNMENT ISSUING CONTRACTING OFFICER FOR THE CONTRACT/PROCURING ACTIVITY NUMBER LISTED IN ITEM 2 OF THIS FORM.		3. DODAAC				
4. ORIGINATOR	b. ADDRESS (Street, City, State, Zip Code)	5. CAGE CODE 19200	6. NOR NO. 002			
a. TYPED NAME (First, Middle Initial, Last) Michael J Berry	CDR, TACOM/ ARDEC US ARMY ARDEC, ATTN: AMSRD-AAR-QEM-B PICATINNY, NJ 07806	7. CAGE CODE 19200	8. DOCUMENT NO. DTL9235210			
9. TITLE OF DOCUMENT Fuze, Hand Grenade, Practice: M228 Parts For, Loading, Assembling And Packing		10. REVISION LETTER				
		a. CURRENT Original	b. NEW			
12. CONFIGURATION ITEM (OR SYSTEM) TO WHICH ECP APPLIES M59 Practice Fragmentation Hand Grenade		11. ECP NO. R04G2004				
13. DESCRIPTION OF REVISION		SHEET 1 OF 3				
<p>PAGE 1</p> <p>Change from:</p> <p>"DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited."</p> <p>To:</p> <p>"DISTRIBUTION STATEMENT D. Distribution Authorized to the Department of Defense and U.S. DoD Contractors only, Critical Technology, December 22, 2003. Other requests shall be referred to AMSRD-AAR-QEM-B, Picatinny, New Jersey 07806-5000"</p> <p>PAGE 2</p> <p>Add to paragraph 2.2.1 SPECIFICATIONS/ DEPARTMENT OF DEFENSE:</p> <p>"MIL-A-48078 Ammunition, Standard Quality Assurance Provisions, General Specification for"</p> <p>PAGE 5</p> <p>Add the following paragraphs:</p> <p>"3.19 Critical defects material handling. An analysis of critical defect material handling shall be made in accordance with MIL-A-48078 and 4.3.3.15."</p> <p>Continued on next page.</p>						
14. THIS SECTION FOR GOVERNMENT USE ONLY						
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">a. (X one)</td> <td style="width: 10%;"></td> <td style="width: 80%;"> (1) Existing document supplemented by this NOR may be used in manufacture. (2) Revised document must be received before manufacturer may incorporate this change. (3) Custodian of master document shall make above revision and furnish revised document. </td> </tr> </table>				a. (X one)		(1) Existing document supplemented by this NOR may be used in manufacture. (2) Revised document must be received before manufacturer may incorporate this change. (3) Custodian of master document shall make above revision and furnish revised document.
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b. ACTIVITY AUTHORIZED TO APPROVE CHANGE FOR GOVERNMENT AMSRD-AAR-AEM-M		c. TYPED NAME (First, Middle Initial, Last) Gregory G. Papadrefon				
d. TITLE CCB Chairman	e. SIGNATURE 	f. DATE SIGNED (YYMMDD) 040715				
15. a. ACTIVITY ACCOMPLISHING REVISION U. S. ARMY, TACOM/ARDEC AMSRD-AAR-QEM-B	b. REVISION COMPLETED (Signature)	c. DATE SIGNED (YYMMDD)				

PAGE 7

ADD TO TABLE I THE FOLLOWING:

	4	A	B
"3.19 Critical defects material handling 4.3.3.15	X	X	X"

Delete paragraph 4.1. in its entirety and replace with:

"4.1.1 Responsibility for Inspection. Unless otherwise specified in the contract or purchase order, the provisions of MIL-A-48078 shall apply and are hereby made a part of this detail specification. Except as otherwise specified in the contract or purchase order, the supplier is responsible for the performance of all inspection requirements as specified herein; the supplier may use his own or any other facilities suitable for the performance of the inspection requirements specified herein, unless disapproved by the Government. In addition, the Government reserves the right to perform any of the inspections set forth in the specification where such inspections are deemed necessary to assure supplies and services conform to the prescribed requirements."

PAGE 8

Delete paragraph 4.2.2 in its entirety and replace with:

"4.2.2 Inspection to be performed. See MIL-A-48078 and Table II specified herein."

Delete paragraph 4.2.3 in its entirety and replace with:

"4.2.3 Rejection. The first article sample shall be rejected if any of the inspections/tests in Table II are not acceptable; MIL-A-48078 applies."

PAGE 10

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To

"12999070"

PAGE 13

Delete paragraph 4.3.1 in its entirety and replace with:

"4.3.1 Lot formation. Fuze lots shall comply with the lot formation provisions of MIL-STD-1916 and MIL-A-48078. In addition lots of fuzes shall contain:

- M42 percussion primers of one lot interfix number from one manufacturer.
- Delay composition from not more than two consecutive lots from one manufacturer.
- Black powder of one lot number from one manufacture."

Delete paragraph 4.3.2 in its entirety and replace with:

"4.3.2 Examination. (See MIL-A-48078). Unless otherwise specified in the Conformance Inspection, sampling plans for major and minor defects shall be in accordance with MIL-STD-1916, Verification Level (VL) IV for major defects and VL II for minor defects. Critical characteristics shall be inspected 100% follow by VL VII in accordance with MIL-STD-1916. Equipment necessary for the performance of the inspections listed shall be in accordance with 4.3.4."

PAGE 21, PARAGRAPH 4.3.2.8

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Change from:

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"12999072"

PAGE 25, PARAGRAPH 4.3.2.12

DELETE "Note: (a) See Table V for sample size and accept/reject criteria."

Change from:

"2 Safety pin withdrawal lower limit (a) (a) 3.8 4.3.3.5"

To:

"2 Safety pin withdrawal lower limit 100% 3.8 Gage"

PAGE 36

Add the following paragraph:

"4.3.3.15 Critical defect material handling (see 3.19). The contractor shall maintain controls for all critical defects as specified in paragraph 3.2 of MIL-A-48078."

Delete paragraph 4.3.4 in its entirety and replace with:

"4.3.4 Inspection Equipment. The inspection equipment required to perform the inspection and tests prescribed in this specification is identified in the 'Paragraph Reference/ Inspection Method' column in the tables starting with paragraph 4.3.2.1, and the test method paragraphs (see 4.4). The contractor shall submit for approval inspection equipment designs in accordance with the terms of the contract (See section 6 of MIL-A-48078 and section 6.3 herein)."

PAGE 40

Add to end of paragraph 6.2 Acquisition requirements:

"o. Provisions of MIL-A-48078"